

EXHIBIT B

Jeff Munson
University of Washington
Box 357920
Seattle, Washington 98195

September 11, 2019

Jamal Whitehead
Schroeter Goldmark & Bender
810 Third Avenue, Suite 500
Seattle, WA 98104

Re: Nawauzor et al. v. The GEO Group, Inc., No. 17-cv-5769-RJB (W.D. Wash.)

Dear Mr. Whitehead:

I have been retained by your firm to assess the economic damages sustained by detained persons participating in the “Voluntary Wage Program” (VWP) at the Northwest Detention Center. Specifically, you asked me to assume that the Washington State minimum wage applied to VWP participants and to calculate back wages owed for work performed at subminimum wage rates from September 24, 2014, to present. This report contains the results of my analysis and explains my methodology as well as the sources of data upon which I relied.

Attached to this report are my *curriculum vitae* (Appendix A), a list of cases in which I have testified over the past four years (Appendix B), and a statement of my compensation (Appendix C).

I. BACKGROUND

The GEO Group, Inc. (“GEO”) owns and operates the Northwest Detention Center (NWDC), and uses civil immigration detainees participating in the VWP to perform many non-security functions in the facility.¹ The jobs performed by VWP participants include work that is broadly characterized as janitorial and maintenance, kitchen, barber, and laundry.² GEO pays these detainees \$1.00 a day for their labor regardless

¹ Compl., ¶¶ 4.2-4.7.

² Kimble Dep., Ex. 20.

Mr. Whitehead
September 11, 2019
Page 2

of how many hours they actually work.³ GEO submits monthly bills to U.S. Immigration and Customs Enforcement for reimbursement of wages paid to VWP participants.⁴

Plaintiffs argue that an employment relationship exists between GEO and the detained persons taking part in the VWP, and that GEO's practice of paying subminimum wages to these workers violates Washington's Minimum Wage Act ("MWA"), RCW 49.46 et seq.⁵

II. MATERIALS CONSIDERED

In the course of my analysis, I reviewed the following documents:

- | | |
|---|--|
| 1. First Amended Complaint | 12. GEO-State 045250 (Jul. 2017
GEO Bill to ICE) |
| 2. NWDC Detainee Handbook | 13. GEO-State 045052 (Aug. 2017
GEO Bill to ICE) |
| 3. R. Kimble Deposition Transcript | 14. GEO-State 045138 (Sept. 2017
GEO Bill to ICE) |
| 4. R. Kimble Deposition, Exhibit 20 | 15. GEO-State 230438 (Oct. 2017
GEO Bill to ICE) |
| 5. R. Kimble Deposition, Exhibit 22 | 16. GEO-State 046622-21 (Nov. 2017
GEO Bill to ICE) |
| 6. GEO-State 045059 (Jan. 2017
GEO Bill to ICE) | 17. GEO-State 230459 (Dec. 2017
GEO Bill to ICE) |
| 7. GEO-State 046463 (Feb. 2017
GEO Bill to ICE) | 18. GEO-State 046536 (Jan. 2018
GEO Bill to ICE) |
| 8. GEO-State 046465 (Mar. 2017
GEO Bill to ICE) | 19. GEO-State 047718 (Feb. 2018
GEO Bill to ICE) |
| 9. GEO-State 045232 (Apr. 2017
GEO Bill to ICE) | |
| 10. GEO-State 047378 (May 2017
GEO Bill to ICE) | |
| 11. GEO-State 045103 (Jun. 2017
GEO Bill to ICE) | |

To the extent additional relevant information becomes available, I reserve the opportunity to revise my analysis and the opinions stated in this report.

³ NWDC Handbook at GEO-Nwauzor 001003.

⁴ Kimble Dep. at 164-170; Ex. 22.

⁵ Compl., ¶¶ 4.2-4.12, 6.1-6.4.

Mr. Whitehead
September 11, 2019
Page 3

III. ASSUMPTIONS APPLIED

You asked me to assume the Washington State minimum wage applied to VWP participants, and to calculate aggregate damages for the certified class from September 26, 2014, to present. During this time, the following State minimum wage rates applied:⁶

- In 2014, the State minimum wage was \$9.32 per hour.
- In 2015, the State minimum wage was \$9.47 per hour.
- In 2016, the State minimum wage was \$9.47 per hour.
- In 2017, the State minimum wage was \$11.00 per hour.
- In 2018, the State minimum wage was \$11.50 per hour.
- In 2019, the State minimum wage is currently \$12.00 per hour.

Other assumptions are discussed below (*see infra*, § IV) in the course of explaining my analysis.

IV. ECONOMIC ANALYSIS

I have calculated the aggregate economic damages under the Washington state minimum wage for the VWP participants from September 26, 2014, through August 31, 2019.

In order to calculate this amount, data and information (collectively, “data”) were imported into the R programming environment. The R language is a freely available language for statistical computing and graphics which provides a wide variety of statistical and graphical techniques.

From the documents listed above (*see supra*, § II), I extracted the monthly payments to VWP participants. I used only information dated September 26, 2014, or later. Thus, the monthly invoice figure for VWP reimbursement for September 2014, \$11,885, was adjusted to account for only September 26 through 30. To do so, \$11,885 was multiplied by (5/30) to yield \$1,980.83, the proportion of the entire

⁶ History of Washington Minimum Wage, Washington State Department of Labor & Industries, available at <https://www.lni.wa.gov/WorkplaceRights/Wages/Minimum/History/default.asp> (last visited, Sept. 4, 2019).

Mr. Whitehead
September 11, 2019
Page 4

month that can be attributed to the final five days of the month, between September 26th and 30th.

Data were available through February 2018. For the months between March 2018 and August 2019 (the present at the time of this writing), the average VWP reimbursement amount of the final 12 months of data (from March 2017 through February 2018) was used. This average was \$12,291.

Based on the monthly invoice figures that reflect worker pay, I calculated damages owed to VWP participants. I understand that individuals were paid \$1 per day while they participated in the voluntary work program. Thus, the monthly invoice figures can be considered the number of shifts worked by individuals in the Voluntary Work Program each month. I was asked to assume that these individuals were entitled to receive the Washington State minimum wage for the time that they worked in the VWP.

The first step was to multiply the monthly worker pay by the appropriate Washington State minimum wage. This value would be the amount of pay VWP participants would be entitled to receive if the minimum wage is applicable and if each shift lasted one hour.

Based on the document "R. Kimble Deposition, Exhibit 20," I was asked to assume that, on average, shifts lasted 1.72 hours. Therefore, I multiplied the values after the first step (described above) by 1.72 to reflect the overall pay entitled to individuals, assuming that the average shift was 1.72 hours long.

Finally, the amount of worker pay from the invoice was subtracted from the values obtained in the preceding paragraph.

The grand total of damages across the period from September 26, 2014 through August 31, 2019 is **\$12,437,697.08**. Table 1 (attached) contains the results of my calculations.

Mr. Whitehead
September 11, 2019
Page 5

I reserve the right to amend or modify this report to the extent additional documents or information come to my attention.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey A. Munson". The signature is fluid and cursive, with the first name "Jeffrey" and last name "Munson" clearly distinguishable.

Jeffrey A. Munson, Ph.D.

Table 1

Month	Worker Pay	Worker Pay Adj	WA Min Wage	Damages 1hr per Shift	Damages 1.72hrs per Shift	Damages 1.72hrs per Shift minus Worker Pay Adj
<i>TOTAL</i>	<i>\$736,584.00</i>	<i>\$726,679.83</i>	<i>---</i>	<i>\$7,653,707.51</i>	<i>\$13,164,376.91</i>	<i>\$12,437,697.08</i>
9/1/2014	\$11,885.00	\$1,980.83	\$9.32	\$18,461.37	\$31,753.55	\$29,772.72
10/1/2014	\$11,306.00	\$11,306.00	\$9.32	\$105,371.92	\$181,239.70	\$169,933.70
11/1/2014	\$10,231.00	\$10,231.00	\$9.32	\$95,352.92	\$164,007.02	\$153,776.02
12/1/2014	\$9,759.00	\$9,759.00	\$9.32	\$90,953.88	\$156,440.67	\$146,681.67
1/1/2015	\$9,341.00	\$9,341.00	\$9.47	\$88,459.27	\$152,149.94	\$142,808.94
2/1/2015	\$8,766.00	\$8,766.00	\$9.47	\$83,014.02	\$142,784.11	\$134,018.11
3/1/2015	\$10,033.00	\$10,033.00	\$9.47	\$95,012.51	\$163,421.52	\$153,388.52
4/1/2015	\$9,890.00	\$9,890.00	\$9.47	\$93,658.30	\$161,092.28	\$151,202.28
5/1/2015	\$11,449.00	\$11,449.00	\$9.47	\$108,422.03	\$186,485.89	\$175,036.89
6/1/2015	\$12,218.00	\$12,218.00	\$9.47	\$115,704.46	\$199,011.67	\$186,793.67
7/1/2015	\$13,203.00	\$13,203.00	\$9.47	\$125,032.41	\$215,055.75	\$201,852.75
8/1/2015	\$13,060.00	\$13,060.00	\$9.47	\$123,678.20	\$212,726.50	\$199,666.50
9/1/2015	\$12,742.00	\$12,742.00	\$9.47	\$120,666.74	\$207,546.79	\$194,804.79

Table 1

Month	Worker Pay	Worker Pay Adj	WA Min Wage	Damages 1hr per Shift	Damages 1.72hrs per Shift	Damages 1.72hrs per Shift minus Worker Pay Adj
10/1/2015	\$13,224.00	\$13,224.00	\$9.47	\$125,231.28	\$215,397.80	\$202,173.80
11/1/2015	\$12,712.00	\$12,712.00	\$9.47	\$120,382.64	\$207,058.14	\$194,346.14
12/1/2015	\$13,185.00	\$13,185.00	\$9.47	\$124,861.95	\$214,762.55	\$201,577.55
1/1/2016	\$13,165.00	\$13,165.00	\$9.47	\$124,672.55	\$214,436.79	\$201,271.79
2/1/2016	\$11,950.00	\$11,950.00	\$9.47	\$113,166.50	\$194,646.38	\$182,696.38
3/1/2016	\$12,679.00	\$12,679.00	\$9.47	\$120,070.13	\$206,520.62	\$193,841.62
4/1/2016	\$12,148.00	\$12,148.00	\$9.47	\$115,041.56	\$197,871.48	\$185,723.48
5/1/2016	\$13,196.00	\$13,196.00	\$9.47	\$124,966.12	\$214,941.73	\$201,745.73
6/1/2016	\$12,879.00	\$12,879.00	\$9.47	\$121,964.13	\$209,778.30	\$196,899.30
7/1/2016	\$13,567.00	\$13,567.00	\$9.47	\$128,479.49	\$220,984.72	\$207,417.72
8/1/2016	\$13,671.00	\$13,671.00	\$9.47	\$129,464.37	\$222,678.72	\$209,007.72
9/1/2016	\$13,322.00	\$13,322.00	\$9.47	\$126,159.34	\$216,994.06	\$203,672.06
10/1/2016	\$13,469.00	\$13,469.00	\$9.47	\$127,551.43	\$219,388.46	\$205,919.46
11/1/2016	\$13,885.00	\$13,885.00	\$9.47	\$131,490.95	\$226,164.43	\$212,279.43

Table 1

Month	Worker Pay	Worker Pay Adj	WA Min Wage	Damages 1hr per Shift	Damages 1.72hrs per Shift	Damages 1.72hrs per Shift minus Worker Pay Adj
12/1/2016	\$13,982.00	\$13,982.00	\$9.47	\$132,409.54	\$227,744.41	\$213,762.41
1/1/2017	\$14,209.00	\$14,209.00	\$11.00	\$156,299.00	\$268,834.28	\$254,625.28
2/1/2017	\$12,723.00	\$12,723.00	\$11.00	\$139,953.00	\$240,719.16	\$227,996.16
3/1/2017	\$13,543.00	\$13,543.00	\$11.00	\$148,973.00	\$256,233.56	\$242,690.56
4/1/2017	\$12,659.00	\$12,659.00	\$11.00	\$139,249.00	\$239,508.28	\$226,849.28
5/1/2017	\$12,869.00	\$12,869.00	\$11.00	\$141,559.00	\$243,481.48	\$230,612.48
6/1/2017	\$11,573.00	\$11,573.00	\$11.00	\$127,303.00	\$218,961.16	\$207,388.16
7/1/2017	\$12,500.00	\$12,500.00	\$11.00	\$137,500.00	\$236,500.00	\$224,000.00
8/1/2017	\$12,500.00	\$12,500.00	\$11.00	\$137,500.00	\$236,500.00	\$224,000.00
9/1/2017	\$10,931.00	\$10,931.00	\$11.00	\$120,241.00	\$206,814.52	\$195,883.52
10/1/2017	\$12,344.00	\$12,344.00	\$11.00	\$135,784.00	\$233,548.48	\$221,204.48
11/1/2017	\$12,027.00	\$12,027.00	\$11.00	\$132,297.00	\$227,550.84	\$215,523.84
12/1/2017	\$12,776.00	\$12,776.00	\$11.00	\$140,536.00	\$241,721.92	\$228,945.92
1/1/2018	\$12,671.00	\$12,671.00	\$11.50	\$145,716.50	\$250,632.38	\$237,961.38

Table 1

Month	Worker Pay	Worker Pay Adj	WA Min Wage	Damages 1hr per Shift	Damages 1.72hrs per Shift	Damages 1.72hrs per Shift minus Worker Pay Adj
2/1/2018	\$11,104.00	\$11,104.00	\$11.50	\$127,696.00	\$219,637.12	\$208,533.12
3/1/2018	\$12,291.00	\$12,291.00	\$11.50	\$141,346.50	\$243,115.98	\$230,824.98
4/1/2018	\$12,291.00	\$12,291.00	\$11.50	\$141,346.50	\$243,115.98	\$230,824.98
5/1/2018	\$12,291.00	\$12,291.00	\$11.50	\$141,346.50	\$243,115.98	\$230,824.98
6/1/2018	\$12,291.00	\$12,291.00	\$11.50	\$141,346.50	\$243,115.98	\$230,824.98
7/1/2018	\$12,291.00	\$12,291.00	\$11.50	\$141,346.50	\$243,115.98	\$230,824.98
8/1/2018	\$12,291.00	\$12,291.00	\$11.50	\$141,346.50	\$243,115.98	\$230,824.98
9/1/2018	\$12,291.00	\$12,291.00	\$11.50	\$141,346.50	\$243,115.98	\$230,824.98
10/1/2018	\$12,291.00	\$12,291.00	\$11.50	\$141,346.50	\$243,115.98	\$230,824.98
11/1/2018	\$12,291.00	\$12,291.00	\$11.50	\$141,346.50	\$243,115.98	\$230,824.98
12/1/2018	\$12,291.00	\$12,291.00	\$11.50	\$141,346.50	\$243,115.98	\$230,824.98
1/1/2019	\$12,291.00	\$12,291.00	\$12.00	\$147,492.00	\$253,686.24	\$241,395.24
2/1/2019	\$12,291.00	\$12,291.00	\$12.00	\$147,492.00	\$253,686.24	\$241,395.24
3/1/2019	\$12,291.00	\$12,291.00	\$12.00	\$147,492.00	\$253,686.24	\$241,395.24

Table 1

Month	Worker Pay	Worker Pay Adj	WA Min Wage	Damages 1hr per Shift	Damages 1.72hrs per Shift	Damages 1.72hrs per Shift minus Worker Pay Adj
4/1/2019	\$12,291.00	\$12,291.00	\$12.00	\$147,492.00	\$253,686.24	\$241,395.24
5/1/2019	\$12,291.00	\$12,291.00	\$12.00	\$147,492.00	\$253,686.24	\$241,395.24
6/1/2019	\$12,291.00	\$12,291.00	\$12.00	\$147,492.00	\$253,686.24	\$241,395.24
7/1/2019	\$12,291.00	\$12,291.00	\$12.00	\$147,492.00	\$253,686.24	\$241,395.24
8/1/2019	\$12,291.00	\$12,291.00	\$12.00	\$147,492.00	\$253,686.24	\$241,395.24

APPENDIX A
CURRICULUM VITAE

Jeffrey A Munson

Department of Psychiatry and Behavioral Sciences	20431 12 th PI W
University of Washington, Box 357920	Lynnwood, WA 98036
Seattle, Washington 98195	(425) 640-6016
Phone: (206) 616-2378	
E-mail: jeffmun@u.washington.edu	

EDUCATION

B. A. *Stanford University, 1988*
Psychology, with Departmental Honors

Ph.D. *University of Washington, 1998*
Major area: Child Clinical Psychology
Dissertation: Structure and variability in the developmental trajectory of children's externalizing problems: Impact of child sex, infant attachment, and maternal depression

PROFESSIONAL POSITIONS

2013 – present	Research Associate Professor of Psychiatry and Behavioral Sciences, University of Washington
2007-2013	Research Assistant Professor of Psychiatry and Behavioral Sciences, University of Washington
1998-2007	Research Scientist, Center on Human Development and Disability, University of Washington

Data analysis responsibilities (1998 - present)

- Oversee data analysis and data management of several large multi-project, collaborative studies.
- Extensive use of SPSS, HLM, EQS, R software programs for various data analytic tasks such as general linear models, hierarchical linear models, latent variable models, and data visualization.
- Extensive use of Microsoft SQL Server 2005, 2008 and Microsoft Access to manage the entry and organization of experimental data

- Use of the Python, Visual Basic, Visual C#, ASP.NET programming languages to create custom solutions for various data manipulation and management tasks.

Clinical and assessment responsibilities (1998 - 2001)

- Clinical assessments of children with autism and developmental disabilities, including standardized cognitive testing and play-based observational diagnostic assessments.
- Provide clinical feedback and recommendations to parents.

PROFESSIONAL ACTIVITIES

Ad hoc reviewer: Archives of Clinical Neuropsychology
Autism: International Journal of Research and Practice
Development and Psychopathology
Developmental Psychology
Journal of Autism and Development Disorders
Autism Research
New England Journal of Medicine

Grant Review Panels: Small Business: Biobehavioral and Behavioral Processes Across the Lifespan (NIH ZRG1 BBBP-T (10) B) (2009, 2010)

PUBLICATIONS

Journal Articles

1. Gehring, T. M., Wentzel, K. R.; Feldman, S. S., Munson, J. (1990). Conflict in families of adolescents: The impact on cohesion and power structures. *Journal of Family Psychology*, 3, 290-309.
2. Feldman, S. S., Wentzel, K. R., Weinberger, D. A., Munson, J. A. (1990). Marital satisfaction of parents of preadolescent boys and its relationship to family and child functioning. *Journal of Family Psychology*, 4, 213-234.
3. Marachi R., McMahon R.J., Spieker S.J., & Munson J.A. (1999). Longitudinal assessment of the low-end specificity of maternal reports of depressive symptoms. *Behavior Research and Therapy*, 37,483-501.
4. Munson J.A., McMahon R.J., & Spieker S.J. (2001) Structure and variability in the developmental trajectory of children's externalizing problems: impact of infant attachment, maternal depressive symptomatology, and child sex. *Development and Psychopathology*, 13, 277-296.
5. Dager, S.R., Friedman, S.D., Shaw, D., Echelard, D., Artru, A., Strauss, W.L., Sparks, B., Carver, L., Richards, T.L., Munson, J., & Dawson, G. (2000). Neuroimaging of the Autistic Child's Brain: Brain Structure, Chemistry and Function. *J Intellectual Disability Research* 44:253.
6. Osterling, J., Dawson, G., & Munson, J. (2002). Early recognition of one year old infants with autism spectrum disorder versus mental retardation: A study of first birthday party home videotapes. *Development and Psychopathology*, 14: 239-51.

7. Dawson, G., Munson, J., Estes, A., Osterling, J., McPartland, J., Toth, K., et al. (2002). Neurocognitive function and joint attention ability in young children with autism spectrum disorder. *Child Development*, 73, 345-358.
8. Sparks, B.F., Friedman, S.D., Shaw, D.W., Aylward, E.H., Echelard, D., Artru, A.A., Maravilla, K.R., Giedd, J.N., Munson, J., Dawson, G., & Dager, S.R. (2002). Brain Structural Abnormalities in Young Children with Autism Spectrum Disorder. *Neurology*, 59: 184-192.
9. Unis, A., Munson, J., Rogers, S.J., Goldson, E., Osterling, J., Gabriels, R., Abbott, R., & Dawson, G. (2002). A randomized, double-blind, placebo-controlled trial of porcine versus synthetic secretin for reducing symptoms of autism. *Journal of the Academy of Child and Adolescent Psychiatry*, 41: 1315-21.
10. Yu, C., Dawson, G., Munson, J., D'Souza, I., Osterling, J., Estes, A., et al. (2002). Presence of Large Deletions in Autism Kindred. *American Journal of Human Genetics*, 71: 100-115.
11. Sultana, R., Yu, C.-E., Yu, J., Munson, J., Chen, D., Hua, W., Estes, A., Cortes, F., de la Barra, F., Yu, D., Haider, S. T., Trask, B. J., Green, E. D., Raskind, W. H., Distech, C. M., Wijsman, E., Dawson, G., et al. (2002). Identification of a Novel Gene on Chromosome 7q11.2 Interrupted by a Translocation Breakpoint in a Pair of Autistic Twins. *Genomics*: 80, 129-134.
12. Carver, L., Dawson, G., Panagiotides, H., Meltzoff, A. N., McPartland, J., Gray, J., & Munson, J. (2003). Age-related differences in neural correlates of face recognition during the toddler and preschool years. *Developmental Psychobiology*, 42:148-59.
13. Dawson, G., Toth, K., Abbott, R., Osterling, J., Munson, J., Estes, A., Liaw, J. (2004). Early Social Attention Impairments in Autism: Social Orienting, Joint Attention, and Attention to Distress. *Developmental Psychology*, 40, 271-283.
14. Ozonoff, S., Cook, I. Coon, H., Dawson, G., Joseph, R. M., Klin, A., McMahon, W. M., Minshew, N., Munson, J. A., Pennington, B. F., Rogers, S. J., Spence, M. A., Tager-Flusberg, H., Volkmar, F. R., Wrathall, D. (2004). Performance on Cambridge Neuropsychological Test Automated Battery Subtests Sensitive to Frontal Lobe Function in People with Autistic Disorder: Evidence from the Collaborative Programs of Excellence in Autism Network. *Journal of Autism & Developmental Disorders*, 34, 139-150.
15. Sung, J.U., Dawson, G., Munson, J., Estes, A., Schellenberg, J., & Wijsman, E.M. (2005). Genetic Investigation of Quantitative Traits Related to Autism: Use of Multivariate Polygenic Models with Ascertainment Adjustment. *American Journal of Human Genetics*, 76, 68-81.
16. Werner, E., Dawson, G., Munson, J., & Osterling, J. (2005). Variation in early developmental course in autism and its relation with behavioral outcome at 3-4 years of age. *Journal of Autism & Developmental Disorders*, 35, 337-350.
17. Dawson G., Webb S.J., Wijsman E., Schellenberg G., Estes A., Munson J., Faja S. (2005). Neurocognitive and electrophysiological evidence of altered face processing in parents of children with autism: Implications for a model of abnormal development of social brain circuitry in autism. *Developmental Psychopathology*, 17, 679-697.
18. Munson, J., Dawson, G., Abbott, R., Faja, S., Webb, S.J., Friedman, S.D. Shaw, D., Artru, A., and Dager, S. (2006). Amygdalar volume and behavioral development in autism. *Archives of General Psychiatry*, 63, 686-693.
19. Schellenberg, G.D., Dawson, G., Sung, Y.J., Estes, A., Munson, J., Rosenthal, E., Rothstein, J., Flodman, P., Smith, M., Coon, H., Leong, L., Yu, C.E., Stodgell, C., Rodier, P.M., Spence, M.A., Minshew, N., McMahon, W.M., & Wijsman E.M. (2006). Evidence for multiple loci from a genome scan of autism kindreds. *Molecular Psychiatry*, 140, 1049-1060.

20. Schellenberg, G.D., Dawson, G., Sung, Y.J., Estes, A., Munson, J., Rosenthal, E., Rothstein, J., Flodman, P., Smith, M., Coon, H., Leong, L., Yu, C.E., Stodgell, C., Rodier, P.M., Spence, M.A., Minshew, N., McMahon, W.M., & Wijsman E.M. (2006). Evidence for genetic linkage of autism to chromosomes 7 and 4. *Molecular Psychiatry*, 140, 2257-2274.
21. Toth, K. Munson, J., Meltzoff, A., Dawson, G. (2006). Early predictors of communication development in young children with autism spectrum disorder: Joint attention, imitation, and toy play. *Journal of Autism & Developmental Disorders*, 36, 993-1005.
22. Lainhart JE, Bigler ED, Bocian M, Coon H, Dinh E, Dawson G, Deutsch CK, Dunn M, Estes A, Tager-Flusberg H, Folstein S, Hepburn S, Hyman S, McMahon W, Minshew N, Munson J, Osann K, Ozonoff S, Rodier P, Rogers S, Sigman M, Spence MA, Stodgell CJ, Volkmar F. (2006). Head circumference and height in autism: a study by the Collaborative Program of Excellence in Autism, *American Journal of Medical Genetics. Part A.*, 140, 2257-74.
23. Dawson, G., Estes, A., Munson, J., Schellenberg, G., Bernier, R., & Abbott, R. (2007). Quantitative assessment of autism symptom-related traits in probands and parents: Broader Phenotype Autism Symptom Scale. *Journal of Autism and Developmental Disorders*, 37, 523-536.
24. Dawson, G., Munson J., Webb S.J., Nalty, T., Abbott, R., & Toth, K. (2007). Rate of head growth decelerates and symptoms worsen in the second year of life in autism. *Biological Psychiatry*, 61, 458-464.
25. Autism Genome Project Consortium: (2007) Mapping autism risk loci using genetic linkage and chromosomal rearrangements. *Nature Genetics*, 39, 319-28.
26. Estes A. M, Dawson, G., Sterling, L., Munson, J. (2007). Level of intellectual functioning predicts patterns of associated symptoms in school-age children with autism spectrum disorder. *American Journal on Mental Retardation*, 112, 439-449.
27. Webb, S.J., Nalty, T., Munson, J., Brock, C., Abbott, R., & Dawson, G. (2007) Rate of head circumference growth as a function of autism diagnosis and history of autistic regression. *Journal of Child Neurology*, 22, 1182-1190.
28. Elder, L. M., Dawson, G., Toth, K., Fein, D., Munson, J. (2007). Head circumference as an early predictor of autism symptoms in younger siblings of children with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 38, 1104-1111.
29. Brune, C.W., Korvatska, E., Allen-Brady, Cook, E.H. Dawson G., Devlin, B., Estes, A., Hennelly, M., Hyman, S., McMahon, W.M., Munson, J., Rodier, P.M., Schellenberg, G.D., Stodgell, C.J., & Coon, H. (2008). Heterogeneous Association between Engrailed-2 and Autism in the CPEA Network. *Neuropsychiatric Genetics*, 147, 187-193.
30. Sterling L, Dawson G, Webb S, Murias M, Munson J, Panagiotides H, Aylward E. (2008). The Role of Face Familiarity in Eye Tracking of Faces by Individuals with Autism Spectrum Disorders, *Journal of Autism and Developmental Disorders*, 38, 1666-1675.
31. Liu XQ, Paterson AD, Szatmari P; Autism Genome Project Consortium. (2008). Genome-wide linkage analyses of quantitative and categorical autism subphenotypes. *Biological Psychiatry*, 64, 561-570.
32. Munson, J., Dawson, G., Sterling, L., Beauchaine, T., Zhou, A., Koehler, E., Lord, C., Rogers, S., Sigman, M., Estes, A., & Abbott, R. (2008). Evidence for latent classes of IQ in young children with autism spectrum disorder, *American Journal on Mental Retardation*, 113, 427-438.

33. Munson, J., Faja, S., Meltzoff, A., Abbott, R., & Dawson, G. (2008). Neurocognitive predictors of social and communicative developmental trajectories in preschoolers with autism spectrum disorders, *Journal of the International Neuropsychological Society*, 14, 956-966.
34. Liu XQ, Paterson AD, Szatmari P; Autism Genome Project Consortium. (2008). Genome-wide linkage analyses of quantitative and categorical autism subphenotypes. *Biological Psychiatry*, 64, 561-70.
35. Glessner, JT, Wang, K, Cai, G, Korvatska, O., Kim, CE., Wood, S., Zhang, H., Estes, A., Brune, C., Bradfield, JP., Imielinski, M., Frackelton, EC, Reichert, J., Crawford, E., Munson, J., Sleiman, P., Chiavacci, R., Annaiah, K., Thomas, K., Hou, C., Glaberson, W., Flory, J., Otieno, F., Garris, M., Soorya, L., Klei, L., Piven, J., Meyer, KJ., Anagnostou, E., Sakurai, T., Game, RM., Rudd, DS., Zurawiecki, D., McDougale, C., Davis, LK., Miller, J., Posey, D., Michaels, S., Kolevzon, A., Silverman, J., Bernier, R., Levy, SE., Dawson, G., Owley, T., McMahon, WM., Wassink, TH., Sweeney, JA., Nurnberger Jr., Coon, H., Sutcliffe, JS., Minshew, NJ., Grant, S., Bucan, M., Cook, EH., Buxbaum, JD., Devlin, B., Schellenberg, GD., Hakonarson, H. (2009). Autism genome wide copy number variation reveals ubiquitin and neuronal genes, *Nature*, 459, 569-573.
36. Wang, K., Zhang, H., Ma, D., Bucan, M., Glessner, J.T., Abrahams, BS., Salyakina, D., Imielinski, M., Bradfield, J.P., Sleiman, P., Kim, C.E., Chiavacci, R., Takahashi, N., Sakurai, T., Rappaport, E., Lajohchere, C.M., Munson, J., Estes, A., Korvatska, O., Piven, J., Sonnenblick, LI., Alvares Retuerto, A., Herman, EI., Dong, H., Hutman, T., Sigman, M., Ozonoff, S., Klin, A., Owley, T., Sweeney, J.A., Brune, C.W., Cantor, R., Bernier, R., Gilbert, JR., Cuccaro, ML., Wassink, TH., McMahon, WM., Coon, H., Miller, J., Nurnberger, Jr., State, M., Haines, JL., Levy, S., Sutcliffe, J.S., Cook, EH., Minshew, N.J., Buxbaum, J.D., Dawson, G., Grant, S., Geshwind, DH., Pericak-Vance, M., Schellenberg, G.D., Hakonarson, H. (2009). Common genetic variation in the intergenic region between CDH10 and CDH9 is associated with susceptibility to autism spectrum disorders. *Nature*, 459, 528-533.
37. Weiss, L.A., Weiss LA, Arking DE; Gene Discovery Project of Johns Hopkins & the Autism Consortium, Daly MJ, Chakravarti A. (2009). A genome-wide linkage and association scan reveals novel loci for autism. *Nature*, 461, 802-808.
38. Estes, A. Munson, J., Dawson, G., Koehler, E., Zhou, X.H., Abbott, R. (2009). Parenting stress and psychological functioning among mothers of preschool children with autism and developmental delay. *Autism*, 13, 375-387.
39. Dawson, G., Rogers, S., Munson, J., Smith, M., Wonter, J., Greenson, J., Donaldson, A., Varley, J. (2010). Randomized, controlled trial of an intervention for toddlers with autism: The early start Denver model. *Pediatrics*, 125, e17-e23.
40. Pinto D, Pagnamenta AT, Klei L, Anney R, Merico D, Regan R, Conroy J, Magalhaes TR, Correia C, Abrahams BS, Almeida J, Bacchelli E, Bader GD, Bailey AJ, Baird G, Battaglia A, Berney T, Bolshakova N, Bölte S, Bolton PF, Bourgeron T, Brennan S, Brian J, Bryson SE, Carson AR, Casallo G, Casey J, Chung BH, Cochrane L, Corsello C, Crawford EL, Crossett A, Cytrynbaum C, Dawson G, de Jonge M, Delorme R, Drmic I, Duketis E, Duque F, Estes A, Farrar P, Fernandez BA, Folstein SE, Fombonne E, Freitag CM, Gilbert J, Gillberg C, Glessner JT, Goldberg J, Green A, Green J, Guter SJ, Hakonarson H, Heron EA, Hill M, Holt R, Howe JL, Hughes G, Hus V, Igliozzi R, Kim C, Klauck SM, Kolevzon A, Korvatska O, Kustanovich V, Lajonchere CM, Lamb JA, Laskawiec M, Leboyer M, Le Couteur A, Leventhal BL, Lionel AC, Liu XQ, Lord C, Lotspeich L, Lund SC, Maestrini E, Mahoney W, Mantoulan C, Marshall CR, McConachie H, McDougale CJ, McGrath J, McMahon WM, Merikangas A, Migita O, Minshew NJ, Mirza GK, Munson J, Nelson SF, Noakes C,

- Noor A, Nygren G, Oliveira G, Papanikolaou K, Parr JR, Parrini B, Paton T, Pickles A, Pilorge M, Piven J, Ponting CP, Posey DJ, Poustka A, Poustka F, Prasad A, Ragoussis J, Renshaw K, Rickaby J, Roberts W, Roeder K, Roge B, Rutter ML, Bierut LJ, Rice JP, Salt J, Sansom K, Sato D, Segurado R, Sequeira AF, Senman L, Shah N, Sheffield VC, Soorya L, Sousa I, Stein O, Sykes N, Stoppioni V, Strawbridge C, Tancredi R, Tansey K, Thiruvahindrapduram B, Thompson AP, Thomson S, Tryfon A, Tsiantis J, Van Engeland H, Vincent JB, Volkmar F, Wallace S, Wang K, Wang Z, Wassink TH, Webber C, Weksberg R, Wing K, Wittemeyer K, Wood S, Wu J, Yaspan BL, Zurawiecki D, Zwaigenbaum L, Buxbaum JD, Cantor RM, Cook EH, Coon H, Cuccaro ML, Devlin B, Ennis S, Gallagher L, Geschwind DH, Gill M, Haines JL, Hallmayer J, Miller J, Monaco AP, Nurnberger Jr JI, Paterson AD, Pericak-Vance MA, Schellenberg GD, Szatmari P, Vicente AM, Vieland VJ, Wijsman EM, Scherer SW, Sutcliffe JS, Betancur C. (2010). Functional impact of global rare copy number variation in autism spectrum disorders. *Nature*, 466: 368-372.
41. Anney R, Klei L, Pinto D, Regan R, Conroy J, Magalhaes TR, Correia C, Abrahams BS, Sykes N, Pagnamenta AT, Almeida J, Bacchelli E, Bailey AJ, Baird G, Battaglia A, Berney T, Bolshakova N, Bølte S, Bolton PF, Bourgeron T, Brennan S, Brian J, Carson AR, Casallo G, Casey J, Chu SH, Cochrane L, Corsello C, Crawford EL, Crossett A, Dawson G, de Jonge M, Delorme R, Drmic I, Duketis E, Duque F, Estes A, Farrar P, Fernandez BA, Folstein SE, Fombonne E, Freitag CM, Gilbert J, Gillberg C, Glessner JT, Goldberg J, Green J, Guter SJ, Hakonarson H, Heron EA, Hill M, Holt R, Howe JL, Hughes G, Hus V, Igliozzi R, Kim C, Klauck SM, Kolevzon A, Korvatska O, Kustanovich V, Lajonchere CM, Lamb JA, Laskawiec M, Leboyer M, Le Couteur A, Leventhal BL, Lionel AC, Liu XQ, Lord C, Lotspeich L, Lund SC, Maestrini E, Mahoney W, Mantoulan C, Marshall CR, McConachie H, McDougle CJ, McGrath J, McMahon WM, Melhem NM, Merikangas A, Migita O, Minshew NJ, Mirza GK, Munson J, Nelson SF, Noakes C, Noor A, Nygren G, Oliveira G, Papanikolaou K, Parr JR, Parrini B, Paton T, Pickles A, Piven J, Posey DJ, Poustka A, Poustka F, Prasad A, Ragoussis J, Renshaw K, Rickaby J, Roberts W, Roeder K, Roge B, Rutter ML, Bierut LJ, Rice JP, Salt J, Sansom K, Sato D, Segurado R, Senman L, Shah N, Sheffield VC, Soorya L, Sousa I, Stoppioni V, Strawbridge C, Tancredi R, Tansey K, Thiruvahindrapduram B, Thompson AP, Thomson S, Tryfon A, Tsiantis J, Van Engeland H, Vincent JB, Volkmar F, Wallace S, Wang K, Wang Z, Wassink TH, Wing K, Wittemeyer K, Wood S, Yaspan BL, Zurawiecki D, Zwaigenbaum L, Betancur C, Buxbaum JD, Cantor RM, Cook EH, Coon H, Cuccaro ML, Gallagher L, Geschwind DH, Gill M, Haines JL, Miller J, Monaco AP, Nurnberger JI Jr, Paterson AD, Pericak-Vance MA, Schellenberg GD, Scherer SW, Sutcliffe JS, Szatmari P, Vicente AM, Vieland VJ, Wijsman EM, Devlin B, Ennis S, Hallmayer J. (2010). A genome-wide scan for common alleles affecting risk for autism. *Hum Mol Genet*, 19(20):4072-4082.
42. Noor A, Whibley A, Marshall CR, Gianakopoulos PJ, Piton A, Carson AR, Orlic-Milacic M, Lionel AC, Sato D, Pinto D, Drmic I, Noakes C, Senman L, Zhang X, Mo R, Gauthier J, Crosbie J, Pagnamenta AT, Munson J, Estes AM, Fiebig A, Franke A, Schreiber S, Stewart AF, Roberts R, McPherson R, Guter SJ, Cook EH Jr, Dawson G, Schellenberg GD, Battaglia A, Maestrini E; Autism Genome Project Consortium, Jeng L, Hutchison T, Rajcan-Separovic E, Chudley AE, Lewis SM, Liu X, Holden JJ, Fernandez B, Zwaigenbaum L, Bryson SE, Roberts W, Szatmari P, Gallagher L, Stratton MR, Gecz J, Brady AF, Schwartz CE, Schachar RJ, Monaco AP, Rouleau GA, Hui CC, Lucy Raymond F, Scherer SW, Vincent JB. (2011). Disruption at the PTCHD1 Locus on Xp22.11 in Autism spectrum disorder and intellectual disability. *Sci Transl Med*, 2(49):49a68.

43. Chapman NH, Estes A, Munson J, Bernier R, Webb SJ, Rothstein JH, Minshew NJ, Dawson G, Schellenberg GD, Wijsman EM. (2011). Genome-scan for IQ discrepancy in autism: evidence for loci on chromosomes 10 and 16. *Hum Genet.* 129(1):59-70.
44. Korvatska O, Estes A, Munson J, Dawson G, Bekris LM, Kohen R, Yu CE, Schellenberg GD, Raskind WH. (2011). Mutations in the TSGA14 gene in families with autism spectrum disorders. *Am J Med Genet B Neuropsychiatr Genet.* 156(B): 303-311.
45. Casey JP, Magalhaes T, Conroy JM, Regan R, Shah N, Anney R, Shields DC, Abrahams BS, Almeida J, Bacchelli E, Bailey AJ, Baird G, Battaglia A, Berney T, Bolshakova N, Bolton PF, Bourgeron T, Brennan S, Cali P, Correia C, Corsello C, Coutanche M, Dawson G, de Jonge M, Delorme R, Duketis E, Duque F, Estes A, Farrar P, Fernandez BA, Folstein SE, Foley S, Fombonne E, Freitag CM, Gilbert J, Gillberg C, Glessner JT, Green J, Guter SJ, Hakonarson H, Holt R, Hughes G, Hus V, Iglizzi R, Kim C, Klauck SM, Kolevzon A, Lamb JA, Leboyer M, Le Couteur A, Leventhal BL, Lord C, Lund SC, Maestrini E, Mantoulan C, Marshall CR, McConachie H, McDougle CJ, McGrath J, McMahon WM, Merikangas A, Miller J, Minopoli F, Mirza GK, Munson J, Nelson SF, Nygren G, Oliveira G, Pagnamenta AT, Papanikolaou K, Parr JR, Parrini B, Pickles A, Pinto D, Piven J, Posey DJ, Poustka A, Poustka F, Ragoussis J, Roge B, Rutter ML, Sequeira AF, Soorya L, Sousa I, Sykes N, Stoppioni V, Tancredi R, Tauber M, Thompson AP, Thomson S, Tsiantis J, Van Engeland H, Vincent JB, Volkmar F, Vorstman JA, Wallace S, Wang K, Wassink TH, White K, Wing K, Wittemeyer K, Yaspan BL, Zwaigenbaum L, Betancur C, Buxbaum JD, Cantor RM, Cook EH, Coon H, Cuccaro ML, Geschwind DH, Haines JL, Hallmayer J, Monaco AP, Nurnberger JI Jr, Pericak-Vance MA, Schellenberg GD, Scherer SW, Sutcliffe JS, Szatmari P, Vieland VJ, Wijsman EM, Green A, Gill M, Gallagher L, Vicente A, Ennis S. (2012). A novel approach of homozygous haplotype sharing identifies candidate genes in autism spectrum disorder. *Hum Genet.* 131(4), 565-79.
46. Bernier R, Gerds J, Munson J, Dawson G, Estes A. (2012). Evidence for broader autism phenotype characteristics in parents from multiple-incidence autism families. *Autism Res.* 5, 13-20.
47. Anney R, Klei L, Pinto D, Almeida J, Bacchelli E, Baird G, Bolshakova N, Bölte S, Bolton PF, Bourgeron T, Brennan S, Brian J, Casey J, Conroy J, Correia C, Corsello C, Crawford EL, de Jonge M, Delorme R, Duketis E, Duque F, Estes A, Farrar P, Fernandez BA, Folstein SE, Fombonne E, Gilbert J, Gillberg C, Glessner JT, Green A, Green J, Guter SJ, Heron EA, Holt R, Howe JL, Hughes G, Hus V, Iglizzi R, Jacob S, Kenny GP, Kim C, Kolevzon A, Kustanovich V, Lajonchere CM, Lamb JA, Law-Smith M, Leboyer M, Le Couteur A, Leventhal BL, Liu XQ, Lombard F, Lord C, Lotspeich L, Lund SC, Magalhaes TR, Mantoulan C, McDougle CJ, Melhem NM, Merikangas A, Minshew NJ, Mirza GK, Munson J, Noakes C, Nygren G, Papanikolaou K, Pagnamenta AT, Parrini B, Paton T, Pickles A, Posey DJ, Poustka F, Ragoussis J, Regan R, Roberts W, Roeder K, Roge B, Rutter ML, Schlitt S, Shah N, Sheffield VC, Soorya L, Sousa I, Stoppioni V, Sykes N, Tancredi R, Thompson AP, Thomson S, Tryfon A, Tsiantis J, Van Engeland H, Vincent JB, Volkmar F, Vorstman JA, Wallace S, Wing K, Wittemeyer K, Wood S, Zurawiecki D, Zwaigenbaum L, Bailey AJ, Battaglia A, Cantor RM, Coon H, Cuccaro ML, Dawson G, Ennis S, Freitag CM, Geschwind DH, Haines JL, Klauck SM, McMahon WM, Maestrini E, Miller J, Monaco AP, Nelson SF, Nurnberger JI Jr, Oliveira G, Parr JR, Pericak-Vance MA, Piven J, Schellenberg GD, Scherer SW, Vicente AM, Wassink TH, Wijsman EM, Betancur C, Buxbaum JD, Cook EH, Gallagher L, Gill M, Hallmayer J, Paterson AD, Sutcliffe JS, Szatmari P, Vieland VJ, Hakonarson H, Devlin B. (2012). Individual common variants exert weak effects on the risk for autism spectrum disorders. *Hum Mol Genet.* 21(21):4781-92.

48. O'Roak BJ, Vives L, Fu W, Egertson JD, Stanaway IB, Phelps IG, Carvill G, Kumar A, Lee C, Ankenman K, Munson J, Hiatt JB, Turner EH, Levy R, O'Day DR, Krumm N, Coe BP, Martin BK, Borenstein E, Nickerson DA, Mefford HC, Doherty D, Akey JM, Bernier R, Eichler EE, Shendure J. (2012). Multiplex targeted sequencing identifies recurrently mutated genes in autism spectrum disorders. *Science*, 338(6114):1619-22.
49. Estes A, Olson E, Sullivan K, Greenson J, Winter J, Dawson G, Munson J. (2013). Parenting-related stress and psychological distress in mothers of toddlers with autism spectrum disorders. *Brain Dev*, 35(2):133-8.
50. Krumm N, O'Roak BJ, Karakoc E, Mohajeri K, Nelson B, Vives L, Jacquemont S, Munson J, Bernier R, Eichler EE. (2013). Transmission disequilibrium of small CNVs in simplex autism. *Am J Hum Genet*, 93(4):595-606.
51. Corrigan NM, Shaw DW, Estes AM, Richards TL, Munson J, Friedman SD, Dawson G, Artru AA, Dager SR. (2013). Atypical developmental patterns of brain chemistry in children with autism spectrum disorder. *JAMA Psychiatry*, 70(9):964-74.
52. Kuhl PK, Coffey-Corina S, Padden D, Munson J, Estes A, Dawson G. Brain responses to words in 2-year-olds with autism predict developmental outcomes at age 6. (2013). *PLoS One*, 8(5):e64967. doi: 10.1371/journal.pone.0064967.
53. Sterling L, Munson J, Estes A, Murias M, Webb SJ, King B, Dawson G. (2013). Fear-potentiated startle response is unrelated to social or emotional functioning in adolescents with autism spectrum disorders. *Autism Res*. 6(5):320-31. doi: 10.1002/aur.1289.
54. Estes A, Vismara L, Mercado C, Fitzpatrick A, Elder L, Greenson J, Lord C, Munson J, Winter J, Young G, Dawson G, Rogers S. (2014). The impact of parent-delivered intervention on parents of very young children with autism. *J Autism Dev Disord*, 44(2):353-65.
55. Estes A, Munson J, Rogers SJ, Greenson J, Winter J, Dawson G. Long-Term Outcomes of Early Intervention in 6-Year-Old Children With Autism Spectrum Disorder. *J Am Acad Child Adolesc Psychiatry*. 2015 Jul;54(7):580-7. doi: 10.1016/j.jaac.2015.04.005. PubMed PMID: 26088663; PubMed Central PMCID: PMC4475272.
56. Chapman NH, Nato AQ Jr, Bernier R, Ankenman K, Sohi H, Munson J, Patowary A, Archer M, Blue EM, Webb SJ, Coon H, Raskind WH, Brkanac Z, Wijsman EM. Whole exome sequencing in extended families with autism spectrum disorder implicates four candidate genes. *Hum Genet*. 2015 Oct;134(10):1055-68. doi: 10.1007/s00439-015-1585-y. PubMed PMID: 26204995; PubMed Central PMCID: PMC4578871.
57. Neuhaus E, Jones EJ, Barnes K, Sterling L, Estes A, Munson J, Dawson G, Webb SJ. The Relationship Between Early Neural Responses to Emotional Faces at Age 3 and Later Autism and Anxiety Symptoms in Adolescents with Autism. *J Autism Dev Disord*. 2016 Jul;46(7):2450-63. doi: 10.1007/s10803-016-2780-y. PubMed PMID: 27055415.
58. Cidav Z, Munson J, Estes A, Dawson G, Rogers S, Mandell D. Cost offset associated with Early Start Denver Model for children with autism. *J Am Acad Child Adolesc Psychiatry*. 2017 Sep;56(9):777-783. doi: 10.1016/j.jaac.2017.06.007. Epub 2017 Jul 4. PubMed PMID: 28838582.
59. Zhou V, Munson JA, Greenson J, Hou Y, Rogers S, Estes AM. An exploratory longitudinal study of social and language outcomes in children with autism in bilingual home environments. *Autism*. 2017 Dec 1:1362361317743251. doi: 10.1177/1362361317743251. [Epub ahead of print] PubMed PMID: 29237275.

60. Estes A, Munson J, John TS, Dager SR, Rodda A, Botteron K, Hazlett H, Schultz RT, Zwaigenbaum L, Piven J, Guralnick MJ; IBIS network. Parent support of preschool peer relationships in younger siblings of children with Autism Spectrum Disorder. *J Autism Dev Disord*. 2018 Apr;48(4):1122-1132. doi: 10.1007/s10803-017-3202-5. PubMed PMID: 28634707; PubMed Central PMCID: PMC5738288.
61. Rogers, SJ, Estes, A, Vismara, L, Munson, J, Zierhut, C, Greenson, J, Dawson, G, Rocha, M, Sugar, C, Senturk, D, Whelan, F, Talbott, M. Enhancing low-intensity coaching in parent implemented Early Start Denver Model intervention for early autism: A randomized comparison treatment trial. *J Autism Dev Disord*, 2018 Sep. doi: 10.1007/s10803-018-3740-5. [Epub ahead of print] PMID: 30203308
62. Chapman NH, Bernier RA, Webb SJ, Munson J, Blue EM, Chen DH, Heigham E, Raskind WH, Wijsman EM. Replication of a rare risk haplotype on 1p36.33 for autism spectrum disorder. *Hum Genet*. 2018 Oct;137(10):807-815. doi: 10.1007/s00439-018-1939-3. Epub 2018 Oct 1. PMID: 30276537
63. Talbott MR, Young GS, Munson J, Estes A, Vismara LA, Rogers SJ. The developmental sequence and relations between gesture and spoken language in toddlers with Autism Spectrum Disorder. *Child Dev*. 2018 Dec 31. doi: 10.1111/cdev.13203. [Epub ahead of print] PMID: 30597550
64. Rogers SJ, Estes A, Lord C, Munson J, Rocha M, Winter J, Greenson J, Colombi C, Dawson G, Vismara LA, Sugar CA, Hellemann G, Whelan F, Talbott M. A Multisite Randomized Controlled Two-Phase Trial of the Early Start Denver Model Compared to Treatment as Usual. *J Am Acad Child Adolesc Psychiatry*. 2019. Jan 24. pii: S0890-8567(19)30044-9. doi: 10.1016/j.jaac.2019.01.004. PMID: 30768394 [Epub ahead of print]

Book Chapters

1. Abbott, R. D., Amtmann, D., Munson, J. (2003). Exploratory and confirmatory methods in learning disabilities research. Swanson, H. L., Harris, K. R., et al. (Eds), *Handbook of learning disabilities* (pp. 471-482). New York, NY, US: Guilford Press.
2. Abbott, R. D., Amtmann, D., & Munson, J. (2006). Statistical analysis for field experiments and longitudinal data in writing research. In C. Macarthur, S. Graham, & J. Fitzgerald (Eds.) *Handbook of Writing Research*, pp. 374-386. New York: Guilford Press.

Professional Articles and Editorials

1. Munson, J. A. (2009). Book Reviews. Autism: Current Theories and Evidence; The Ethics of Autism: Among Them, but Not of Them, *New England Journal of Medicine*, 360, 2485-2486
2. Munson, J., & Pasqual, P. (2012). Technology in autism research: The promise and perils. *IEEE Computer Mag*, 45(6).

Conference Presentations

1. Dawson, G., Schellenberg, J., Wijsman, E., Osterling, J., Estes, A., & Munson, J. Genetic study of autism. Presented at the 1999 Meeting of the Autism Society of America, Kansas City, KS.
2. Dager, S.R., Friedman S.D., Shaw, D., Echelard, D., Artru, A.A., Strauss, W., Sparks, B., Carver, L., Richards T., Munson J., & Dawson G. (2000, March). Brain Structural and Chemical Imaging of Autistic Children, Developmentally Delayed Children and Age-Matched Controls. 20th Annual Meeting, European Winter Brain Conference. Geneva, Switzerland.
3. Dager, S.R., Friedman, S.D., Shaw, D., Echelard, D., Artru, A.A., Strauss, W.D., Sparks, B., Carver, L., Richards, T.L., Munson, J., & Dawson, G.(2000, August). Neuroimaging of the autistic child's brain: Brain, structure chemistry and function. IASSID Seattle, WA.
4. Dawson, G., Rogers, S., Sigman, M., Munson, J., & Abbott, R. Cognitive Functioning in Young Children with Autism versus Mental Retardation. Presented at the 2000 meeting of the Collaborative Programs of Excellence in Autism (CPEA). Denver, CO.
5. Werner, E., Dawson, G., Osterling, J., & Munson, J. Autistic regression: A validation of the phenomenon based on home videotapes and parent report. Presented at the 2001 meeting of the Society for Research in Child Development, Minneapolis, MI.
6. Dager, S.R., Friedman, S.D., Shaw, D.W.W., Sparks, B., Richards, T.L., Munson, J., Artru, A.A., Giedd, J., & Dawson G. (2001, December). Brain Structural and Chemical Abnormalities in Childhood Autism. Annual Meeting, American College of Neuropsychopharmacology.
7. Dager, S., Munson, J., Friedman, S., Webb, S., Shaw, D., Sparks, B., Artru, R., Abbott, R., & Dawson, G. (2002, November). Neuroimaging relationship to behavioral performance and clinical course in young children with ASD. Presented at the 2002 Meeting of the International Society for Autism Research, Orlando, FL.
8. Dawson, G., Schellenberg, G., Wijsman, E., Munson, J., & Estes, A. (2002, November). Quantitative assessments of autism symptoms in probands and family members: Broader Phenotype Autism Scale. Presented at the 2002 Meeting of the International Society for Autism Research, Orlando, FL.
9. Dawson, G., Munson, J., Estes, A., & Abbott, R. (2003, April). Early neurocognitive predictors of variations in developmental trajectory in autism. Accepted for presentation at the 2003 meeting of the Society for Research in Child Development. Tampa, FL.
10. Toth, K., Munson, J., Estes, A., Abbott, R., & Dawson, G. (2003, April). Joint Attention Predicts Rate of Language and Social Growth in Young Children With Autism. Poster presented at the 2003 meeting of the Society for Research in Child Development. Tampa, FL.
11. Toth, K., Dawson, G., Meltzoff, A., & Munson, J. (2004). Early predictors of language growth in young children with autism: Joint attention, imitation, and toy play. Poster presented at the International Meeting for Autism Research, Sacramento, CA.
12. Dawson, G., Webb, S.J., Wijsman, E., Schellenberg, G., Estes, A., Munson, J., & Faja, S. Face Processing is Altered in Parents of Children With Autism: Neurocognitive and Neurophysiological Evidence. Accepted for presentation at the 2005 Meeting of the Society for Research in Child Development. Atlanta, GA.
13. Estes, A. M., Munson, J., Clary, L., & Dawson, G. Presence of a Broader Phenotype of Autism in Siblings From Multiplex Autism Families Accepted for presentation in the Symposium on "Autism in Infancy" S. Ozonoff and N. Yirmiya (Chairs) at the 2005 Meeting of the Society for Research in Child Development. Atlanta, GA.

14. Munson, J., Dawson, G., Lord, C., Rogers, S., Sigman, M., & Abbott, R. Evidence for a bimodal distribution of neurocognitive function in autism. Presented at the 2005 meeting of the Collaborative Programs of Excellence in Autism (CPEA). Bethesda, MD.
15. Munson, J.A. (2009). Inferences on cognition in nonverbal children via real-time analysis of eye gaze. Poster presented at the International Meeting for Autism Research, Chicago, IL.

EXPERT TESTIMONY

Dr. Munson has worked as an expert in relation to data management and statistical analysis on over 40 cases with attorneys from Schroeter, Goldmark, & Bender, the Law Office of David Mark, Terrell Marshall Law Group, Rehki & Wolk, and Barnard, Iglitzin, & Lavitt.

Trial Testimony:

Pellino v. Brinks, Incorporated

Hill v. Garda CL Northwest, Inc.

Bruner, et al. v. Davis Wire Corporation

Espinoza v. MH Janitorial Services, LLC

Washington State Nurses Association v.

Yakima HMA LLC, d/b/a Yakima Regional Medical and Cardiac Center

Deposition Testimony:

Pellino v. Brinks, Incorporated

Hill v. Garda CL Northwest, Inc.

Bruner, et al. v. Davis Wire Corporation

Owens v. Bethlehem Construction Inc.

Watkins et al. v. United Parcel Service, Inc.

Elliott v. Cadman, Inc.

Thompson, Edwards, and Rowe v. Peterson Brothers, Inc.

Ott v. Mortgage Investors Corporation

Washington State Nurses Association v.

Yakima HMA LLC, d/b/a Yakima Regional Medical and Cardiac Center

Hardie et al. v. Best Parking Lot Cleaning Inc.

GRANTS

Special Hope Foundation Munson (PI) 7/1/08-6/30/09

Communication and Gaze in Children with Disabilities

The purpose of this project is to develop an innovative assessment tool using eye-tracking technology that is integrated in real-time with real-time 3D rendered graphics. The integration of these two technologies will provide a means to investigate social-cognition and language comprehension in children with limited communication abilities.

Role: Principal Investigator

P50HD055782 NICHD/NIDCD King (PI), Munson (Core PI) 8/1/07– 7/31/12

UW Autism Center of Excellence

The goals of this project are to (1) discover genetic and environmental risk factors for autism, (2) identify early behavioral and neurophysiological risk indices of autism, (3) examine early manifestations of abnormal brain development in autism, (4) conduct a randomized clinical trial aimed at reducing and preventing the onset of autism symptoms, (5) conduct a follow-up study of early intensive behavioral intervention in autism, and (6) identify risk factors for the development of associated conditions in adolescence in autism.

Role: Principal Investigator of Statistics and Data Management Core

Simons Foundation Munson (PI) 2/1/12-1/31/13

Novel Measurement of Imitation and Motor Control in Severe Autism

This project will use novel computer-based activities to study imitation and motor planning skills in a sample of severely impaired adolescents with autism. The activities use the Microsoft Kinect depth camera to record body movement in fine-detail as the students pop balloons, balance blocks, play “follow the leader”, and pilot an airplane. During these activities we will measure how students modify their movements in response to what they observe on the screen. This will allow us to assess the learning process as it unfolds based on behavior the student initiates on his or her own. Tools that can assess subtle changes in behavior and learning are needed to support treatment research for those with the most severe impairments.

Role: Principal Investigator

TEACHING

Faculty sponsor for Jae Kim, Student of Dr. Kelvin Sung in the senior internship program in the UW Bothell Department of Computing and Software Systems. Project Title: *Integrating Eye-tracking Device-Driven Applications for Studying Autism Using Valve's Source Real-time Game Engine*. (2009).

Faculty sponsor for Young Youn, Student of Dr. Kelvin Sung in the senior internship program in the UW Bothell Department of Computing and Software Systems. Project Title: *Eye-tracking Across Multiple Monitors Using Valve's Source Game Engine To Investigate Nonverbal Measures of Theory of Mind*. (2009).

Faculty Mentor to David Xue, Senior Capstone Project in the UW Department of Engineering (Department sponsor, Tom Lewis, PhD). Project Title: *Design of a toolset for evaluating visual attention variability in autistic children*. (2010).

SERVICE

Discussion Leader for the Biomedical Research Integrity Program Series, Department of Bioethics & Humanities, UW School of Medicine. (2010, 2012).

PROFESSIONAL AFFILIATIONS

International Society for Autism Research

APPENDIX B PREVIOUS TESTIMONY

Over the past five years I have provided trial and/or deposition testimony in the following cases:

Case	Case No.	Court	Trial testimony	Deposition testimony
Rojas v. Damco Distribution Services, Inc./Damco USA, Inc.	17-2-14133-5	Pierce County Superior Court		5/25/2019
Hardie et al. vs. Best Parking Lot Cleaning Inc.	17-2-27730-4	King County Superior Court		4/2/2019
Mendis v. Schneider National Carriers, Inc.	C15-0144-JCC	US District Court for the Western District of WA		2/7/2018
WA State Nurses Assoc v. Yakima Regional Medical and Cardiac Center	15-2-01109-9	Yakima County Superior Court	1/26/2018 & 2/5/2018	1/10/2017 & 5/19/2017
Espinoza v. MH Janitorial Services, LLC	14-2-26201-9	King County Superior Court	1/23/2017	
Hill, et al. v. Garda CL Northwest, Inc	09-2-07360-1	King County Superior Court	6/16/2015	4/23/2015
Southwell v. Mortgage Investors Corp.	2:23-cv-01289-MJP	US District Court for the Western District of Washington		7/18/2014
Bruner v. Davis Wire Corp.	12-2-15676-0	King County Superior Court	9/3/2014	6/27/2014

APPENDIX C COMPENSATION

I am working at my current rate of \$350 per hour for analysis and testimony for this case.